

Science Toolkit: Grade 6 Objective 4.D.1.b

Student Handout: Science: Grade 6 Objective 4.D.1.b

Standard 4.0 Chemistry

Topic D. Physical and Chemical Changes

Indicator 1. Cite evidence to support the fact that some substances can be separated into the original substances from which they were made.

Objective b. Based on data gathered, identify and describe various processes used to separate mixtures.

Filtration

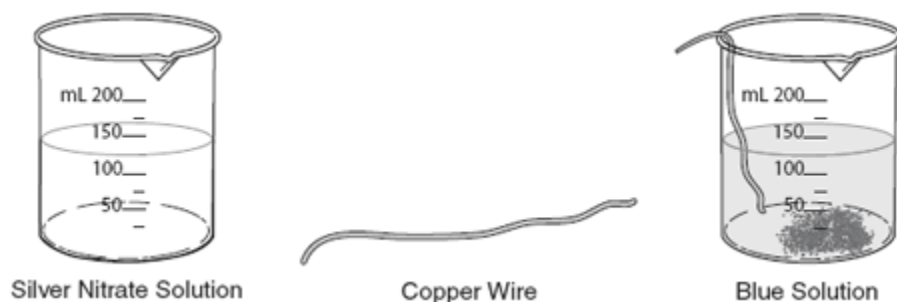
Evaporation

Paper Chromatography

Selected Response (SR) Item

Question

Silver nitrate (AgNO_3) a colorless powder, consists of the metallic element silver (Ag) and two non-metallic elements, nitrogen and oxygen (N and O). Silver nitrate mixed with water (H_2O) forms a clear solution. When a piece of copper wire (Cu) is put into a silver nitrate solution, the clear solution turns blue. A silvery white substance forms on the wire and falls to the bottom of the solution.



What is the best method for separating the silvery white substance from the liquid in the beaker?

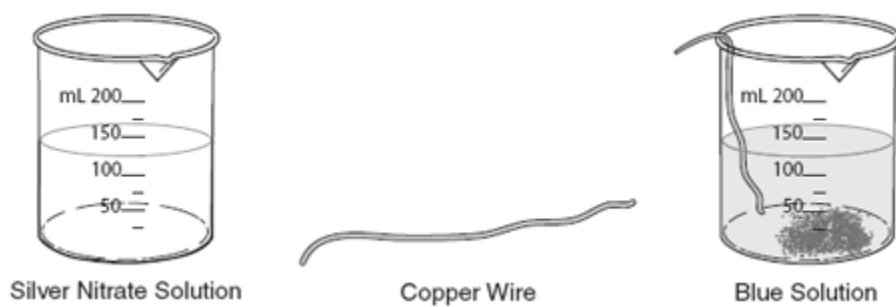
- A. absorption
- B. chromatography
- C. condensation
- D. filtration

Correct Answer

D. filtration

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